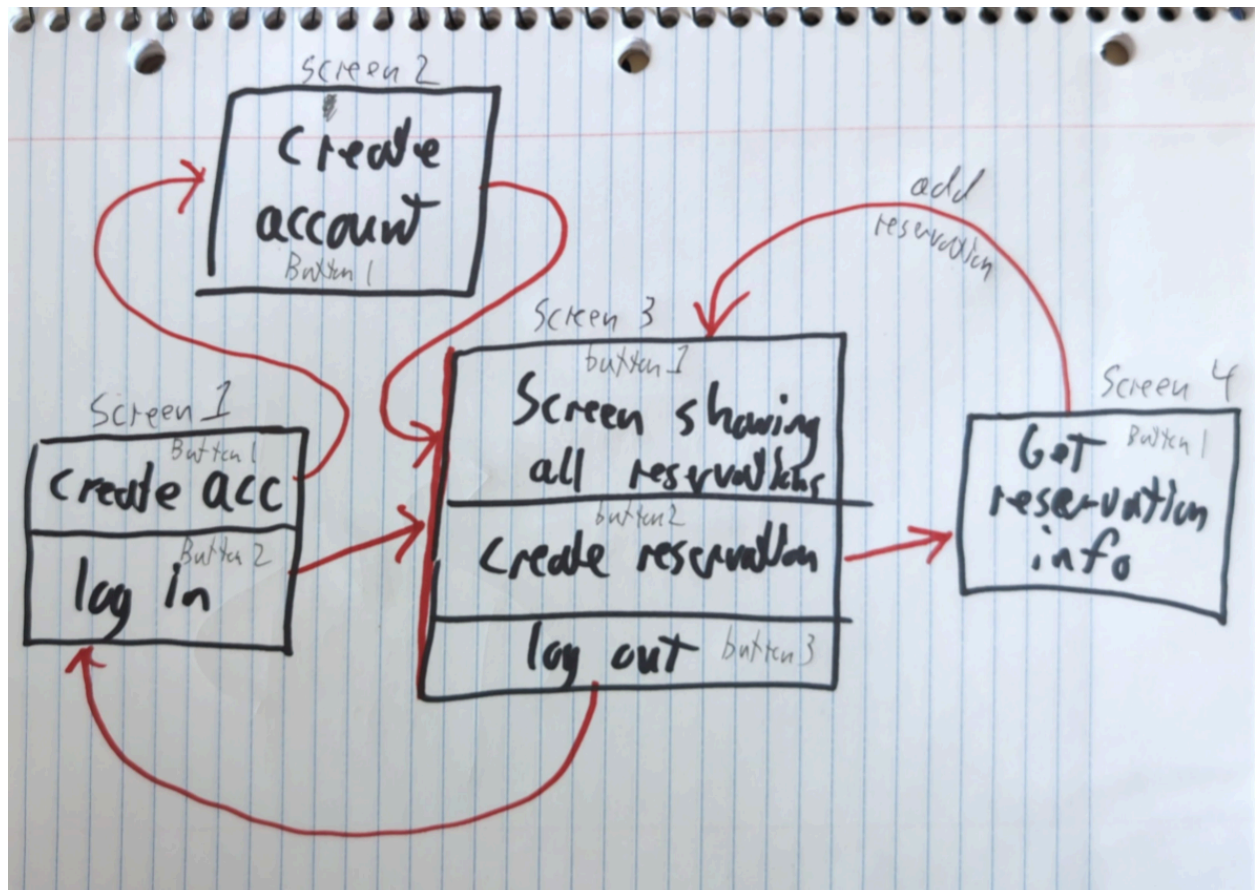# Athletic Facilities Scheduler
David, Spencer, Curtis, Caleb

Section I: What we hope to accomplish:

The Fieldhouse's facilities are open to many members of the UPS community, including, but not limited to, alumni, local residents, faculty, staff and students. With so many different events and people using the facilities, scheduling/reserving times for areas within the fieldhouse can be a tedious and confusing process. Having a website where we can reserve specific facilities, as well as see upcoming events within the fieldhouse throughout the day, week and months would help make this process much easier for everyone.

This project will be engaging for us because we are all current or former UPS athletes who have dealt with this process and would like to see a streamlined alternative.

For this project we plan on going the NoSQL database model route, using a combination of MongoDB and JSON files to store our data. This strategy is a lot more flexible and allows changes to the schema which might be desirable for the fieldhouse

in the future. This will give us experience working with a NoSQL MongoDB, whose use is becoming increasingly more common.

   This project covers many areas that will be new for us. With this and how we are a fairly large team for this type of project, we are expecting to run into some problems. Some expected problems are:

- We lack experience using MongoDB, and we might expect different learning curves as members of the team will have to learn the software outside of class.
- Being a larger team, we might expect struggles with coordinating and troubleshooting merge conflicts within code submissions.
- Adapting our project's scope as we progress and come across different edge cases that may arise from real-world problems.
- Members of the team may have different levels of obligations towards other classes, and finding a balance where everyone is still able to contribute without feeling overwhelmed as we get into a busier period of the year, academically.

Section II: Tentative Grading Rubric:
   [5pts] An initial schema for our JSON structure
   [30pts] Implementation of a working reservation system.
   [15pts] Page for the users to see the current reservations for different facilities
   [15pts] Page(s) providing a step by step process for a user to create a reservation
   [25pts] Users can log in and view/remove their reservations
   [15pts] Users can create an account if they don't have one
   [10pts] Schema can be updated by admin?